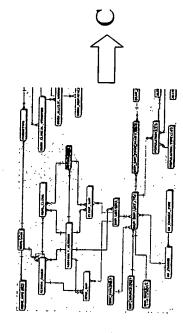




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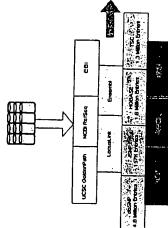


FIGURE 2 (continued)

| Continued of the part of the p

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1   CCATCCAGGGAA   1   CCATCCAGGGAA   3   CCATCCAGGGACCCCCACCCCACCCCACACACACACACAC	E E E	Gene	၁ %	Probe Oligo Sequence	SEQ ID NO	ON CLOSS	S
NIVA ACCGGACGCGGAGGACCCTGTGACTTT NIVA ACCGGACGCGGAGGAGACCCTGTGACATTT NIVA ACCGGACGCGGAGGAGACCCTGTGACATTT ACCGGACGCGGAGGTGCCTGTTGGGACTTGC 64% ACCGGACGCGGAGGTGCCAGTTCACCAGAGGACCCTGTTGCGACACAGAGGACCCTGTTGCGACACAGAGGACCCGACACAGAGGACCCGGAGGCGACACAGAGGACCCGGAGGCTGACCGACACAGAGGACCCGGAGGCTGACCGACACAGAGGACCCGGAGGCTGACCGACACAGAGGACCCGGAGGCTGACCGACACAGAGGACCCGGAGGCTGACCGACACAGAGGACCCGACGCCGACGCCTATGTCCTGCGACGCACACAGGGAGGCCTACTCTGCAGACACAGGACACAGGACCCGAGGCTTGCAGAGACTCTGGAATTGAACCAGAGACACTTGCAGAGGCCTTGTGAACTTGAACCAGAGCCCTGAATTGAACCAGAGACAGAGCCAGAGGCCTTGTGCAAATTGAACCAGAGCCCTGAATTGAACTAGTGAACTAGAGGCCCGAAGGCCTTGTGAACTTGAACGTGCAGAGGCCTTGTGAAGGCCTTGAAGGCCTTGTGAAGGCCTTGTGAAGGCCTTGAAGGCCTTGTGAAGGCCTTGAAGGCCTTGTGAAGTTGAACTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCTTGAAGGCCGAAGGCCATTGAAGTGAGGCCCGAAGGCCTTGAAGCTGCAGGCCCGAAGGCCTTGAAGGCCGCGAAGGCCTTGAAGCTGCAGGCCGAAGGCCTTGAAGGCCGAAGGCCAACGTGCAGGCCCGAAGGCCTTGAAGCTGCAGGCCCGAAGGCCTTGAAGCTGCAGGCCCGAAGGCCTTGAAGGCCGAAGGCCAACTGCAGAGGCCCGAAGGCCAACGTGCAGGCCCGAAGGCCAACGTGCAGGCCCGAAGGCCCAAGGCCAACGTGAAGGCCCGAAGGCCCAAGGCCAACTGAAGCCCGCCGAAGGCCCAAGGCCAACTGAAGCCCGCCGAAGGCCCAAGGCCCAAGGCCAACTGCAGAGGCCCGAAGGCCCAAGGCCAAGTCTGAAGCCCGCCGAAGGCCCAAGGCCAAGGCCAAGTCTGAAGCCCCGAAGGCCCAAGACCCAGTCTGAAGCCCCGAAGGCCCAAGAGCCCAAGAGCCCAAGAGCCCAAGAGCCCAAGAGCCCAAGACCCAAGAGCCCAAGAGCCCAAGACCCAAGCCCAAGAGCCCAAGACCCAAGAGCCCAAGAGCCCAAGAGCCCAAGAGCCCAAGAGCCCAAGACCAAGAGCCCAAGACCCAAGACCCAAGACCCAAGACCCCAAGAGCCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCCAAGACCCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCCAAGACCAACACACACACAACA	-	ACTA1	Ą.	ACGGACGCGACAGGAACCCTGTGACAT	A CONTOTACOL	2	2
N/A ACGGACGCGGAGAGGACCCTGTGACATTT N/A ACGGACGCGGAGAGGACCCTGTGACATTC N/A ACGGACGCGGAGAGGACCCTGTGACATTC N/A ACGGACGCGGAGCCCCGCAGTCACT 68% ACGGACGCGGAGCCCCGCAGTCAC 62% ACGGACGCGGAGCCCCGCAGTCACAC 68% ACGGACGCGGAGCTCCCTGCAC 58% ACGGACGCGGAGCTCCCTGCAC 68% ACGGACGCGGAGCTCCCTGCAC 68% ACGGACGCGGAGCTCCCTGCAC 68% ACGGACGCGGAGCTCCCTGCAC 66% ACGGACGCGGAGCTCCCTGCAC 66% ACGGACGCGGAGCTCCCTGCAC 66% ACGGACGCGGAGCTCCCTGCAC 66% ACGGACGCGGAGCTCCACGCAC 66% ACGGACGCGGAGCTCCCTGCAC 66% ACGGACGCGGAGCTCCACGCAC 66% ACGGACGCGGAGCTCCACGCAC 66% ACGGACGCGGAGCTCCACGCAC 66% ACGGACGCCGAGGCTCCACGCAC 66% ACGGACGCCGAGGCTCCACGCAC 66% ACGCCCGAGGCTCCACACGCAC 66% ACGCCCGAGGCTCCACACGCAC 66% ACGCCCGAGGCCTCTCTGCAC 66% ACGCCCGAGGCCTCACACGTG 66% ACGCCCGAGGCCTCACACGTG 66% ACGCCCGAGGCTTCTGAC 66% ACGCCCGAGGCTTCTGAC 66% ACGCCCGAGGCTTCTGAC 66% ACGCCCGAGGCTTCTGAC 66% ACGCCCGAGGCTTCTGAC 66% ACGCCCGAGGCTTCTCAC 66% ACGCCCCGAGGCTTCTCAC 66% ACCGCCCGAGGCTTCTCCCTTCTC 66% ACCGCCCGAGGCTTCTCCCTTCTCC 66% ACCGCCCGAGGCTTCTCCCTTCTCC 66% ACCGCCCGAGGCTTCTCCCTTCTCCTTCTCCTTCTCCTTCTCCTTCTCTCT	_	ACTA1	N/N	ACGGACGCGAGAGCAACCTGTGACATT	2 CCATCCAGGGAAGAGTGGCCTGTT		5 5
NIA ACGGACGCGGAGAGGACCCTGTGACATTTC NA ACGGACGCGGAGTGGCCTGTTAGGAC S4% ACGGACGCGGAGTGGAGTGGAGTGG 63% ACGGACGCGGAGTGGAGTGTGAGT 58% ACGGACGCGGAGTGGAGTTGTCACGA 58% ACGGACGCGGAGTGGAGTTGTCACGA 58% ACGGACGCGGAGTGACAGCTC 58% ACGGACGCGGAGTGACAGCTC 58% ACGGACGCGGAGTTGTCCTGAC 58% ACGGACGCGGAGTTGCCTGAC 58% ACGGACGCGGAGTTGCCTGAC 58% ACGGACGCGGAGTTGCCTGAC 58% ACGGACGCGGAGTTGACACTC 58% CGCGCCGAGGCTTGACACTC 58% CGCGCCGAGGCTTGTTGAT 58 CGCGCCGAGGCTTGTTGAT 58% CGCGCCGAGGCTTTGTGAT 58% CGCGCCGAGGCTTTTGAGGTG 58% CGCGCCGAGGCTTTTTGAGGTG 58% CGCGCCGAGGCTTTTTGAGGTG 58% CGCGCCGAGGCTTTTTTGAGGTG 58% CGCGCCGAGGCTTTTTTTGAG 58% CGCGCCGAGGCTTTTTTTGAG 58% CGCGCCGAGGCTTTTTTTGAG 58% CGCGCCGAGGCTTTTTTTGAG 58% CGCGCCGAGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT	-	ACTA1	Ϋ́Z	ACGGACGCGGAGAGCCCTGTGACATTT	3 CCATCCAGGAAGAGTGCCCTTTT		5 5
NIVA ACGGACGCGGAGGTGGCCTGTTAGGAC  54% ACGGACGCGGAGGTGGAGGTGGAGTTG  58% ACGGACGCGGAGGCGCATTCCACCA  58% ACGGACGCGGAGGCGCATTGTCGCACA  58% ACGGACGCGGAGGCGATCTCACCACA  58% ACGGACGCGGAGGCGATCTCACGCA  58% ACGGACGCGGAGGTGACCGACACA  58% ACGGACGCGGAGGTTGCCATGTCACACA  58% ACGGACGCGGAGGTTCCACGCAC  58% ACGGACGCGGAGGTTCCACGCAC  58% ACGGACGCGGAGGTTCCACGCAC  58 CGCGCCGAGGCTCCACGACA  50 CGCCCGAGGCTCCACGACA  50 CGCCCGAGGCTCCACACACTC  58% CGCGCCGAGGCTCCACACTC  58% CGCGCCGAGGCTCACCACACTC  58% CGCGCCGAGGCTTCTGCACAC  58% CGCGCCGAGGCTCACCACACTC  58% CGCGCCGAGGCTTCACACTC  58% CGCGCCGAGGCTTCTACACTC  58% CGCGCCGAGGCTTCTACACTC  58% CGCGCCGAGGCTTCTACACTC  58% CGCGCCGAGGCTTCTACACTC  58% CGCGCCGAGGCTTCTACACTC  58% CGCGCCGAGGCTTCTACACTC  58% CGCGCCGAGGCATCCACTC  58% CGCGCCGAGGCATCCACTC  58% CGCGCCGAGGCATCCACTC  58% CGCGCCGAGGCATCCACTC  58% CGCGCCGAGGCATCT  58% CGCGCCGAGGCCT  58% CGCGCCGAGGCCT  58% CGCGCCGAGGCATCT  58% CGCGCCGAGGCCT  58% CGCCCCGAGGCCT  58% CGCCCCGAGGCCT  58% CCCCCGAGGCCT  58% CCCCCGAGGCCT  58% CC	_	ACTA1	A/A	ACGGACGCGGAGAGGAACCCTGTGACATTTC	9 4		102
54%         ACGGACGCGGAGTGCAGTCACT           58%         ACGGACGCGGAGTGGAGTGTG           63%         ACGGACGCGGAGTGTGCACCGA           58%         ACGGACGCGGAGGCATTGACCGACA           58%         ACGGACGCGGAGGCATTGACCGACACA           58%         ACGGACGCGGAGGCTGACGACACA           58%         ACGGACGCGGAGCTATGACGACA           59%         ACGGACGCGGAGCTACCACGACACA           50%         ACGGACGCGGAGCTACCACGACA           50%         ACGGACGCGGAGCTACCACGACACA           50%         ACGGACGCGGAGCTACCACGAGA           50%         CGCGCCGAGGCTCACCACGAGA           50%         CGCGCCGAGGCTCACCACGAGCA           50%         CGCGCCGAGGCTCACCACGAGCA           50%         CGCGCCGAGGCACTACCACGAGCA           50%         CGCGCCGAGGCACTACCACGAGCA           50%         CGCGCCGAGGCACTACCACGAGCA           50%         CGCGCCGAGGCATCTGACACACTGCA           50%         CGCGCCGAGGCATCTGACACACTGCA           50%         CGCGCCGAGGCATCTGACCACCTGCA           50%         CGCGCCGAGGCATCTGACCACCTGCA           50%         CGCGCCGAGGCATCTGACCACTTGCA           50%         CGCGCCGAGGCATCTTGACACCTGCA           50%         CGCGCCGAGGCATCTTGCACCACTTGA           50%         CGCGCCGAGGCATCTTGCACCACTTGA	-	ACTA1	Υ X	ACGGACGCGGAGGTGGCCTGTTAGGAAC			3 5
58%         ACCGACGCGGAGTGGGGGGGGGGGGGGGGGGGGGGGGGG		ACTA1	54%	<u>ACGGACGCGGAGCCCGCAGTCACT</u>	6 GGCGGCTGAGCTCCAGCCAT		5 5
63% ACGGACGCGAGCGATCTCACCGA 62% ACGGACGCGAGGCCATTGTCGCACA 58% ACGGACGCGGAGGCTCCGGACACA 56% ACGGACGCGGAGGCTCCGTGACACACTC 59% ACGGACGCGGAGCTGCTCCTGAG 59% ACGGACGCGGAGCTTCCCTGTGCA 50% ACGGACGCGGAGCTTCCCTGTGCA 50% ACGGACGCGAGCTTCCCTGTGCA 50% CGCGCCGAGGCTCCACGTTTGAACCACTG 50% CGCGCCGAGGCTCCACGTGAT 50% CGCGCCGAGGCTCTTGCAACT 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGTGCA 50% CGCGCCGAGGCCTTGCAGC 50% CGCGCCGAGGCCTTGCAGC 50% CGCGCCGAGGCCTTGCAGC 50% CGCGCCGAGGCCTTCTGCAGC 50% CGCGCCGAGGCCTTCTGCAGC 50% CGCGCCGAGGCCTTCTGCAGC 50% CGCGCCGAGGCCTTCTGCAGC 50% CGCGCCGAGGCCTTCTGCAGC 50% CGCGCCGAGGCCTTCTGCAG 50% CGCGCCGAGGCTTCTGCA 50% CGCGCCGAGGCTTCTGCA 50% CGCGCCGAGGCTTCTGCA 50% CGCGCCGAGGCTTCTGCA 50% CGCGCCGAGGCTTCTGCA 50% CGCGCCGAGGCTTTCTGCC 50% CGCGCCGAGGCTTTCTGCC 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCCTTTCTGCA 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCCTTTCTGCA 50% CGCGCCGAGGCCTTTCTCCA 50% CGCGCCGAGGCCTTCTCCA 50% CCCCCGAGGCCTTCTCCA 50% CCCCCGAGGCCCTTCTCCA 50% CCCCCCAGGCCCCCCCCCA 50% CCCCCCAGGCCCCCCCCACCCCCCCCCCCCCCCCCCCC	-	ACTA1	28%	<u>ACGGACGCGGAG</u> TGGAGGTGGGGGTGTG	7 TTCGTCGTCCTGAGAGTCGCGTGCC		10,5
62% ACGGACGCGAGGCCATTGTCGCACA 58% ACGGACGCGGAGGCTC 58% ACGGACGCGGAGGCTC 58% ACGGACGCGGAGCTCCGTGAGG 58% CGCCCGAGGCTCCGTGCTGAG 50% CGCCCGAGGCTCCGTGTCTCGGA 50% CGCCCGAGGCTCCGTGTTCTCAG 50% CGCCCGAGGCTCCGTGTTCTGAT 50% CGCCCGAGGCTCCAGGTGTTTGAT 50% CGCCCGAGGCTCCTGCGA 50% CGCCCGAGGCTACCACGTG 50% CGCCCGAGGCCTACCACGTG 50% CGCCCGAGGCCTACCACGAGA 50% CGCCCGAGGCCTACCACAGAGC 50% CGCCCGAGGCCTCCACAGAGC 50% CGCCCGAGGCCTCCACAGAGC 50% CGCCCGAGGCCTCCACAGAGC 50% CGCCCGAGGCCTCCACAGAGC 50% CGCCCGAGGCCTCCAGAGC 50% CGCCCGAGGCCTCCAGAGC 50% CGCCCGAGGCCTCCAGGC 50% CGCCCGAGGCCTCCAGGC 50% CGCCCGAGGCCTCCAGTG 50% CGCCCGAGGCCTCCAGTG 50% CGCCCGAGGCCTCCAGTG 50% CGCCCGAGGCCTCTCACAGTG 50% CGCCCCGAGGCTTCTGCA 50% CGCCCCGAGGCTTCTGCA 50% CGCCCCGAGGCTTCTGCA 50% CGCCCGAGGCTTTCTGC 50% CGCCCCGAGGCTTTCTGCA 50% CGCCCCGAGGCTTTCTCCCTGTCA 50% CGCCCCGAGGCTTTCTCCCTGTCA 50% CGCCCCGAGGCCTTTCTCCCTGTCA 50% CGCCCCGAGGCCTTTCTCCCTGTCA 50% CGCCCCGAGGCCTTTCTCCCTGTCA 50% CGCCCCGAGGGCCCTTTCTCCCTGTCA 50% CGCCCCGAGGCCTTCTCCA 50% CCCCCCGAGGCCTTTCTCCA 50% CGCCCCGAGGCCTCCCA 50% CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	-	ACTA1	63%	<u>ACGGACGCGGACCCGATCTCACCGA</u>	8 GCGCCTGGACCTGGCGGGCT		107
58% ACGGACGCGAGGTGACCGGACACA 58% ACGGACGCGGAGGTGACCGGACACA 58% ACGGACGCGGAGCTGCTGACGACG 59% ACGGACGCGGAGCTTCCTGTGAC 50% CGCGCGAGGCTTCCTGTGCAC 50% CGCGCGAGGCTCCACGCA 50% CGCGCCGAGGCTCCACGCA 50% CGCGCCGAGGCTCCACGCA 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACACAC 50% CGCGCCGAGGCCTACCACAC 50% CGCGCCGAGGCCTCTCTACACAC 50% CGCGCCGAGGCCTCTACACAC 50% CGCGCCGAGGCATCTGACACCTC 50% CGCGCCGAGGCATCTTCTGAC 50% CGCGCCGAGGCATCTTCTGAC 50% CGCGCCGAGGCTTCTCCACTC 50% CGCGCCGAGGCTTCTCCAC 50% CGCGCCGAGGCTTCTCCAC 50% CGCGCCGAGGCTTCTCCAC 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCTTTCTGCA 50% CGCGCCGAGGCTTTCTCCC 50% CGCGCCGAGGCTTTCTCC 50% CGCCCCGAGGCTTTCTCC 50% CGCGCCGAGGCTTTCTCC 50% CGCGCCGAGGCTTTCTCC 50% CGCGCCGAGGCTTTCTCCCTGTC 50% CGCGCCGAGGCTTTCTCCCTGTC 50% CGCGCCGAGGCCTTTCTCCCTGTC 50% CGCGCCGAGGCCTTTCTCCCTGTC 50% CGCGCCGAGGCCTTTCTCCCTGTC 50% CGCGCCGAGGCCTTTCTCCCTGTC 50% CGCGCCGAGGGCCTTTCTCCCTGTC 50% CGCGCCGAGGCCTTTCTCCCTGTC 50% CGCGCCGAGGGCCTTTCTCCCTGTC 50% CGCGCCGAGGGCCCTTTCTCCCTGTC 50% CGCGCCGAGGGCCCTTTCTCCCTGTC 50% CGCGCCGAGGGCCCTCCCCCCTCCCTCC 50% CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	-	ACTA1	62%	<u>ACGGACGCGGAGGCCATTGTCGCACA</u>	9 GCCGGCTTTCACCAGGCCGGAT	•	108
56%         ACGGACGCGGAGCTGGAGCTC           59%         ACGGACGCGGAGCTGAGG           59%         ACGGACGCGGAGCTGAGG           59%         ACGGACGCGGAGCTCCTGCTGGCA           50         CGCGCGAGGCTCGAGTCCAGGGA           52         CGCGCGAGGCTCGAGTGCAGGAGA           58         CGCGCGAGGCTCCAGGGAGA           58%         CGCGCGAGGCTCACCAGGAGA           58%         CGCGCGAGGCTCACCAGGAGA           58%         CGCGCCGAGGCCTCTGTGAGCT           58%         CGCGCCGAGGCCTCTGTGAGCT           58%         CGCGCCGAGGCCTCTGTGAGCT           58%         CGCGCCGAGGCCTCTGAGCAGTG           58%         CGCGCCGAGGCTTGTGAGCAGTG           58%         CGCGCCGAGGCTTGAGCAGTG           58%         CGCGCCGAGGCTTGAGCAGTG           58%         CGCGCCGAGGCTTGAGCAGTG           58%         CGCGCCGAGGCTTGAGCAGTG           58%         CGCGCCGAGGCTTCTGAGCAGTG           58%         CGCGCCGAGGCTTCTGAGCAGTG           58%         CGCGCCGAGGCTTCTGAGCAGTG           58%         CGCGCCGAGGCTTCTGAGCCAGTG           58%         CGCGCCGAGGCTTCTGAGCCAGTG           58%         CGCGCCGAGGCTTCTGAGCCAGTG           58%         CGCGCCGAGGCTTCTGAGCAGTG           56%         CGCGC	-	HIST2H2BE	28%	<u>ACGGACGCGGAG</u> GGTGACCGGACACA	10 GGCCCCATCGCACGCCAGAACTT		109
59% ACGGACGGGAGCAAGGGCAGCTGAG 59% ACGGACGCGGAGCTTCCCTGCTGGCA 60% CCCCGGAGGCTGGATTCATCTCTCTGC 60% CCGCCGAGGCTGGATTGAACCACTG 58 CGCGCCGAGGCTGATTGAACCACTG 58 CGCGCCGAGGCTCATGGAGA 58% CGCGCCGAGGCTGTTGCAGAGC 58% CGCGCCGAGGCCTCTCTGCAGACT 58% CGCGCCGAGGCCTCTTTGCAGACT 58% CGCGCCGAGGCCTGTTTG 58% CGCGCCGAGGCCTGAGCAG 58% CGCGCCGAGGCCTGAGCAG 58% CGCGCCGAGGCTTGAGGC 58% CGCGCCGAGGCTTCTGAG 58% CGCGCCGAGGCGTTCTGAG 58% CGCGCCGAGGCGTTCTGC 58% CGCGCCGAGGCGTTCTGAG 58% CGCGCCGAGGCCTTCTGAG 58% CGCGCCGAGGCCTTCTGAG 58% CGCGCCGAGGCCTTCTGAG 58% CGCGCCGAGGCCTTCTGAG 58% CGCGCCGAGGCCTTCTGAG 58% CGCGCCGAGGCCTTCTGAG 58% CGCGCCGAGGCCTTCTGCAGTTCG 68% CGCGCCGAGGCCTTCTGCAGTTCG 68% CGCGCCGAGGCCATTCTGCAGGTCG 68% CGCGCCGAGGCCTTCTGAG 68% CGCGCCGAGGCCTTCTCAGAG 68% CGCGCCGAGGCCTTCTCAGAG 68% CGCGCCGAGGCCTTCTGCAGTTCC 68% CGCGCCGAGGCCCTTCTGCAGTTCC 68% CGCGCCGAGGCCTTCTCAGAG 68% CGCGCCGAGGCCTTCTCAGAG 68% CGCCCGAGGCCTTCTCAGAG 68% CGCCCGAGGCCTTCTCAGAG 68% CGCCCGAGGCCTTCTCAGAG 68% CGCCCGAGGCCTTCTCAGAG 68% CGCCCGAGGCCTTCTCAG 68% CGCCCGAGGCCTTCTCAG 68% CGCCCGAGGCCTTCTCAG 68% CGCCCGAGGCCTTCTCAGAG 68% CGCCCGAGGCCTCTCAGCTCCTCAG 68% CGCCCGAGGCCTCTCAGCTCCTCAG 68% CGCCCGAGGCCCTCTCAGCTCCCAGGCCCCCCAGGCCCCCCAGGCCCCCAGGCCCTCCCCAGGCCCTCCCCAGGCCCCCCCC	-	HIST2H2BE	26%	ACGGACGCGGAGCTGCGTGACAGCTC	11/ACAATTCAGCCCGGGTTCCGCAAACAA		110
59% ACGGACGCGAGCTTCCCTGCTGCAGCA 60% CGCCCGAGGCTGGATTCTATGTCCAG 60% CGCCCGAGGCTGGATTGAACCACTG 58 CGCCCGAGGCTCCAGGTGTCTGGAT 58 CGCCCGAGGCTCCAGGTGTCTGGAT 58% CGCCCGAGGCTCTCTGCAGACT 57% CGCCCGAGGCTTCTGCAGACT 58% CGCCCGAGGCTTCTGCAGACT 58% CGCCCGAGGCTTCTGCAGACT 58% CGCCCGAGGCTTGACGTG 58% CGCCCGAGGCTTGAGCGC 58% CGCCCGAGGCTTCTGCAGCAG 58% CGCCCGAGGCTTCTGACGTG 58% CGCCCGAGGCTTCTGACGTG 58% CGCCCGAGGCTTCTGACGTG 58% CGCCCGAGGCTTCTGAGCAG 58% CGCCCGAGGCTTCTGAGCAG 58% CGCCCGAGGCTTCTGAGCAG 58% CGCCCGAGGCTTCTGAG 58% CGCCCGAGGCTTCTGAG 58% CGCCCGAGGCGTTCTGAG 58% CGCCCGAGGCCGTTCTGAG 58% CGCCCGAGGCCATTTCTGC 68% CGCCCGAGGCCTTCTGAG 68% CGCCCGAGGCCTTCTGAG 68% CGCCCGAGGCCTTCTGAG 68% CGCCCGAGGCCTTCTGCAGTTCC 68% CGCCCGAGGCCTTCTGCAGTTCG 68% CGCCCGAGGCCTTCTGCAGGTTC 68% CGCCCGAGGCCTTCTGCAGGTTC 68% CGCCCGAGGCCTTCTGCAGGTTC 68% CGCCCGAGGCCTTCTGCAGGTTC 68% CGCCCGAGGCCTTCTCAGAGTC 68% CGCCCGAGGCCTTCTGCAGGTTC 68% CGCCCGAGGCCTTCTGCAGGTTC 68% CGCCCGAGGCCTTCTCAGAGTC 68% CGCCCGAGGCCTTCTCAGAGTCC 68% CGCCCGAGGCCTTCTCAGAGTC 68% CGCCCGAGGCCTCTCTCAGAGTC 68% CGCCCGAGGCCTCTCTCAGCTCCTCAGCTCCCAGGCCCCCAGGCCCCAGAGAGTC 68% CGCCCGAGGCCTCTCTCAGCTCCTCAGCTCCCAGGCCCCCGAGGCCCCCAGAGGCCCCAGAGAGTC 68% CGCCCGAGGCCCCAGAGTCCCCCCCAGGCCCCAGAGACTCCCCCCCC	_	SVZA	28%	ACGGACGCGGACCAAGGGCCAGCTGAG	12 CAGGGCCAGAGCTGCCAAGGGG		11.
CGCGCCGAGGCAAGAATTCTCATGTCTCAGGCAGGCAAGAATTCTCATGTCTCAGGCAGG	- ;	<b>₹</b>	29%	<u>ACGGACGCGGAGCTTCCCTGCTGGCA</u>	13 TCAGCTCTGTCCTTGGCGGGACAGTCC		112
60% CGCGCGAGGCTCGACTCAGGGCA 52 CGCGCGAGGCCGTGATTGAACCACTG 58 CGCGCCGAGGCCGTGTTGGAT 58 CGCGCCGAGGCCATGAGGA 58% CGCGCCGAGGCCATGCGA 57% CGCGCCGAGGCCATCTGCAACT 57% CGCGCCGAGGCCTACCACAGAGCA 58% CGCGCCGAGGCCTACCACAGAGCA 58% CGCGCCGAGGCCTACCACAGGCA 58% CGCGCCGAGGCCTACCACAGGCA 58% CGCGCCGAGGCCTACAGGCA 58% CGCGCCGAGGCATCTGAACGTG 58% CGCGCCGAGGCCTACAGGCA 58% CGCGCCGAGGCATCTGAACGTG 58% CGCCCGAGGCATCTACAGCAC 58% CGCGCCGAGGCATCTACAGC 58% CGCGCCGAGGCATCTACAGC 58% CGCGCCGAGGCTTCTACAGC 58% CGCGCCGAGGCTTCTACAGC 58% CGCGCCGAGGCTTCTACAGC 58% CGCGCCGAGGCTTCTCCCTTC 58% CGCGCCGAGGCTTCTCCCTTCC 58% CGCGCCGAGGCTTCTCCCTTCC 58% CGCGCCGAGGCCTTCTCCCTTCC 58% CGCGCCGAGGCCTTCTCCCTTCC 58% CGCGCCGAGGCCTTCTCCCTTCC 58% CGCGCCGAGGCCTTCTCCCTTCC 58% CGCGCCGAGGCCTTCTCCCTTCC 58% CGCGCCGAGGCCTTCTCCCTTCCCTCCCTCCCCCCCCCC	21	DSCR8		CGCGCCGAGGCAAGAATTCTCATGTCTCAG	14 CACTGCAGCCTCCAGTTT		113
52 CGCGCGAGGCCGTGATTGAACCACTG 58 CGCGCCGAGGCTCAGGTGTCTGGAT 58 CGCGCCGAGGCTCAGGTGTCTGGAT 58 CGCGCCGAGGCCCTGTGCGA 58% CGCGCCGAGGCCTTCTGCAGACT 54% CGCGCCGAGGCCTACCAGAGCA 57% CGCGCCGAGGCCTACCAGAGCA 57% CGCGCCGAGGCCTACCAGAGCA 58% CGCGCCGAGGCCTGAGCAGCTGC 58% CGCGCCGAGGCCTGAGCAGCTGC 58% CGCGCCGAGGCATCTGAGCAGC 58% CGCGCCGAGGCATCTGAGCAGC 58% CGCGCCGAGGCATCTGAGCAGCT 58% CGCGCCGAGGCATCTGAGCAGC 58% CGCGCCGAGGCATCTGAGCAGC 58% CGCGCCGAGGCATCTGAGCAGTG 58% CGCGCCGAGGCTTCTGAGCAGTG 58% CGCGCCGAGGCTTCTGAGCCATTCTGGA 58% CGCGCCGAGGCTTCTGCAGCGATTC 58% CGCGCCGAGGCTTTCTGCA 58% CGCGCCGAGGCTTCTCCCTTTCTGA 58% CGCGCCGAGGCTTTCTGCG 56% CGCGCGAGGCCTTTCTGCA 57% CGCGCCGAGGCCTTTCTGCA 57% CGCGCCGAGGCCTTTCTGCA 57% CGCGCCGAGGCCTTTCTGCA 57% CGCGCCGAGGCCTTTCTGCAGCTTC 56% CGCGCCGAGGCCTTTCTCCCTTCC 56% CGCGCCGAGGCCTTCCAGCTCC 56% CGCGCCGAGGCCTTCCAGCTCC 56% CGCCCGAGGCCTCCCGAGGC 66% CGCCCGAGGCCTCCCGAGGC 66% CGCCCGAGGCCTCCCCAGGC 66% CGCCCGAGGCCTCCCCAGGC 66% CGCCCGAGGCCTCCCCCCAGGC 66% CGCCCGAGGCCTCCCCAGGC 66% CGCCCGAGGCCTCCCCCAGGC 66% CGCCCGAGGCCCCCCCCAGGC 66% CGCCCGAGGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	5	DSCR6	%09	CGCGCCGAGGCTCGACTCACGGCA	15 CCCAGGCTGGAATGCAATGGTGCGATT		= 4
58 CGCGCGAGGCTCCAGGTGTCTGGAT 56 CGCGCCGAGGCACTAGGAA 58% CGCGCCGAGGCCCTCTGCAAACT 54% CGCGCCGAGGCCCTCTGCAAACT 54% CGCGCCGAGGCCTACTGCAAACT 57% CGCGCCGAGGCCTACCAACAGTGC 57% CGCGCCGAGGCCTAGCAACGTGC 58% CGCGCGAGGCCTGAGCAACTGC 58% CGCGCCGAGGCATGCAACGTGC 58% CGCGCCGAGGCATGCAACGTGC 58% CGCGCCGAGGCATGCAGCAACTGC 58% CGCGCCGAGGCATGCAGCAGTG 58% CGCGCCGAGGCATCTGAACGTG 58% CGCGCCGAGGCATCTACAGCACTC 58% CGCGCCGAGGCATCTACAGCACTC 58% CGCGCCGAGGCTCTACAAGCCCATTGAA 57% CGCGCCGAGGCTTCTGCAGCAGTG 56% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCTTTCTCCCTTCA 57% CGCGCCGAGGCCTTTCTCCCTTCA 57% CGCGCCGAGGCCTTTCTCCCTTCA 57% CGCGCCGAGGCCCATTCTCCC 65% CGCGCCGAGGCCCCATGTCC 65% CGCGCCGAGGCCCCCCCGAGG 63% CGCGCGAGGCCCCCCCGAGG 63% CGCGCCGAGGCCCCCCCGAGG 63% CGCGCCGAGGCCCCCCCGAGG 63% CGCCCGAGGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	21	DSCR8	25	CGCGCCGAGGCCGTGATTGAACCACTG	16 ACTGGGAGGTGGAGGCTGCAGTGATT		115
56 <u>CGCGCGAGG</u> CAGTGAGCTCAGGAGA 58% <u>CGCGCCGAGG</u> CCACCTGTGCGA 58% <u>CGCGCCGAGG</u> CCTCTCTGCAGAACT 54% <u>CGCGCCGAGG</u> CCTCTCTGCAGAACT 57% <u>CGCGCCGAGG</u> CCTCTCTGCAGAGCA 57% <u>CGCGCCGAGG</u> CCTGCTGTAACGTG 58% <u>CGCGCCGAGG</u> CCTGAGCAGTGC 58% <u>CGCGCCGAGG</u> CCTGAGCAGCGC 58% <u>CGCGCGAGG</u> CTGAGCAGCGC 58% <u>CGCGCGAGG</u> CTGAGCAGCGC 58% <u>CGCGCGAGG</u> CTGAGCACGTG 58% <u>CGCGCCGAGG</u> CTGCAGTGCAGC 58% <u>CGCGCCGAGG</u> CTTCTGAGACCTC 58% <u>CGCGCCGAGG</u> CTTCTGCAGCCACTGA 52% <u>CGCGCCGAGG</u> CTTCTGCAGCCATTCTGG 56% <u>CGCGCCGAGG</u> CTTCTCCCTGTC 57% <u>CGCGCCGAGG</u> CTTCTGCAGTTCTGC 56% <u>CGCGCCGAGG</u> CCATTCTGCG 57% <u>CGCGCCGAGG</u> CCATTCTGCG 65% <u>CGCGCCGAGG</u> CCATTCTGCAGTTCC 56% <u>CGCGCCGAGG</u> CCATTCTGCAGGTTC 56% <u>CGCGCCGAGG</u> CCATTCTGCAGGTTC 56% <u>CGCGCCGAGG</u> CCATTCTGCAGGTTC 56% <u>CGCGCCGAGG</u> CCATTCTGCAGGTTC 56% <u>CGCGCCGAGG</u> CCATTCGCAGGTTCC 56% <u>CGCGCCGAGG</u> CCATTCGCAGGTTCC	2	DSCR6	28	CGCGCCGAGGCTCCAGGTGTCTGGAT	17/GGCCTTCCAGTTCTGGTCAGCTCAGCATT		116
58%   CGCGCGAGGCCACCTGTGCGA   56%   CGCGCCGAGGCCTCTCTGCAGACT   54%   CGCGCCGAGGCCTCTCTGCAGACT   54%   CGCGCCGAGGCCTCTCTGCAGACT   57%   CGCGCCGAGGCGCGCTCTGG   58%   CGCGCCGAGGCGCGCGTGC   58%   CGCGCGAGGCTGCAGCAGGC   58%   CGCGCGAGGCTGCAGCAGG   58%   CGCGCGAGGCTGCAGCAGG   58%   CGCGCGAGGCTGCAGCAGG   58%   CGCGCGAGGCTTCTGAGCAGGC   58%   CGCGCGAGGGCTCACAAGCAGTG   58%   CGCGCGAGGGCTCTAAAGACGTG   58%   CGCGCCGAGGGCTTCTGGA   56%   CGCGCGAGGCTTTCTGC   56%   CGCGCGAGGCTTTCTGC   56%   CGCGCGAGGCTTTCTGC   56%   CGCGCGAGGCCATTTTTGC   56%   CGCGCGAGGCCATTTTTGC   56%   CGCGCGAGGCCATTTTTGC   56%   CGCGCGAGGCCATTTTTGC   56%   CGCGCGAGGCCATTTTTGC   56%   CGCGCGAGGCCATTTTTGC   56%   CGCGCGAGGCCATTTTTTC   56%   CGCGCGAGGCCATTTCGC   56%   CGCGCGAGGCCTTCCATTCCATTCCATTCCATTCCATTC	2		20	<u>CGCGCCGAGG</u> CAGTGAGCTCAGGAGA	18 GGTTCTGTCTGTGCCAAGGGCAGGTTGATT		117
56%   CGCGCGAGGCCTCTCTGCAGAACT 54%   CGCGCCGAGGGCTACCAGAGCA 57%   CGCGCCGAGGGCGAGCAGTTGTAACGTG 58%   CGCGCCGAGGGCGGAGCAGTTG 58%   CGCGCCGAGGCTGAGCAGTG 58%   CGCGCCGAGGCTGAGCAGTG 58%   CGCGCGAGGCTGAGCAGTG 58%   CGCGCGAGGCTGAGCAGTG 58%   CGCGCGAGGGCTACAGCAGTG 58%   CGCGCCGAGGGCTACAGCAGTG 58%   CGCGCCGAGGGCTACAGCAGTG 58%   CGCGCCGAGGGCTACAGCAGGTG 58%   CGCGCCGAGGGCTTATGTGG 56%   CGCGCGAGGCGTTTTTGG 56%   CGCGCGAGGCTTTTTGC 57%   CGCGCCGAGGCTTTTTGC 56%   CGCGCCGAGGCTTTTTGC 56%   CGCGCCGAGGCTTTTTGC 56%   CGCGCCGAGGCCATTTTTGC 56%   CGCGCCGAGGCCATTTTTGC 56%   CGCGCCGAGGCCATTTTTC 56%   CGCGCCGAGGCCATTTC 56%   CGCGCCGAGGCCATTTC 56%   CGCGCCGAGGCCATTTC 56%   CGCGCCGAGGCCATTTC 56%   CGCGCCGAGGCCATTTC 56%   CGCGCCGAGGCCATTC 56%   CGCGCCGAGGCCATTC 56%   CGCGCCGAGGCCATTC 66%   CGCCCGAGGCCATTC 66%   CGCCCGAGGCCATTC 66%   CGCCCGAGGCCCTC 66%   CGCCCGAGGCCATTC 66%   CGCCCGAGGCCTC 66%   CGCCCGAGGCCCTC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCTCCC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCCTCC 66%   CGCCCGAGGCCCCCCCCCCCCCCCCCCCCCCCCCCCC	7		. 28%	CGCGCCGAGGCCCACCTGTGCGA	20 GCCTCAGTGGAGACAAGTGGGAAAACATGGTT		119
54%         CGCGCCGAGGCCTACCAGAGCCA           57%         CGCGCCGAGGGAGCCTTGAACGTG           57%         CGCGCCGAGGGAGCAGTCTG           58%         CGCGCCGAGGCCTGAGCAGCTGC           58%         CGCGCCGAGGCCTGAGCAGCTGC           58%         CGCGCCGAGGCCTGAGCAGCTGC           58%         CGCGCCGAGGCATCCTGAGCAGCTGC           58%         CGCGCCGAGGCATCAAGCAGCTC           58%         CGCGCCGAGGCTCTAAAGCAGCTC           58%         CGCGCCGAGGCCTCTAAGCAGCTC           58%         CGCGCCGAGGCCTCTAAGCAGTG           56%         CGCGCCGAGGCCTTCTGCAGTTCTGGA           56%         CGCGCCGAGGCCTTTCTGCA           57%         CGCGCCGAGGCCTTCTAAGAGCCGACTGA           57%         CGCGCCGAGGCCTTCTAAGAGCCGACTGA           57%         CGCGCCGAGGCCATTCTCCCTTCC           56%         CGCGCCGAGGCCATTCTGCAGGTTC           65%         CGCGCCGAGGCCATTTCTGCAGGTTC           65%         CGCGCCGAGGCCATTTCTCCAGGTC           65%         CGCGCCGAGGCCATTTCTCCAGGTC           65%         CGCGCCGAGGCCATTCTCCAGGTC           65%         CGCCCCGAGGCCCTCCCAGGCC           65%         CGCCCCGAGGCCTCCCAGGCCCCAGGGC           65%         CGCCCCGAGGCCCTCCCAGGCCCCCCAGGGCCCCCCAGGCCCCCCCC	2		26%	CGCGCCGAGGCCCTCTCTGCAGAACT	21 TGGACGTGCCAGCGGCATGACAAT		120
57%         CGCGCCGAGGGAGCAGTCTGTAACGTG           57%         CGCGCCGAGGGAGCAGGTGG           58%         CGCGCCGAGGACCAGGTGC           58%         CGCGCCGAGGCCTGAGCAACGTGC           58%         CGCGCCGAGGCATGCTGAGCAGCTG           58%         CGCGCCGAGGCATGCTGCAGC           58%         CGCGCCGAGGGATCCTGAGCAGCTG           58%         CGCGCCGAGGGCTACAAGCAGCTC           58%         CGCGCCGAGGGCTACAAGCAGTG           58%         CGCGCCGAGGGCTACAAGAGTG           58%         CGCGCCGAGGGCTACAAGAGTG           56%         CGCGCCGAGGCTACAAGAGTG           56%         CGCGCCGAGGCTTCTGCAGCGACTG           57%         CGCGCCGAGGCTTCTCCCTGTC           57%         CGCGCCGAGGCTTCTGCAGCTTC           57%         CGCGCCGAGGCTTCTCCCTGTC           56%         CGCGCCGAGGCTTCTCCCTTCC           56%         CGCGCCGAGGCTTCTCCCGAGGT           56%         CGCGCCGAGGCCTTCTCCCGAGG           56%         CGCGCCGAGGCCTTCTCCCGAGG           56%         CGCGCCGAGGCCTTCTCCCGAGG           56%         CGCGCCGAGGCCTTCTCCCGAGG           56%         CGCGCCGAGGCCTCCCGAGGG           56%         CGCGCCGAGGCCTCCCGAGGG           56%         CGCGCCGAGGCCTCCCGAGGG           56%	5	AML1	%	CGCGCCGAGGCCTACCACAGAGCCA	22 CTTCACAAACCCACCGCAAGTCGCCAT		121
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58% CGCGCGAGGCCTGAGCAACGTGC 58% CGCGCGAGGCTGCAACGTGC 58% CGCGCCGAGGCATGCAGCAACGTGC 58% CGCGCCGAGGGATGCTGAGCAACGTG 58% CGCGCCGAGGGATCCTGAGCAGCTG 58% CGCGCCGAGGGATCCTGAGCAGCTG 58% CGCGCCGAGGGTACAAGCAGTC 53% CGCGCCGAGGCTTCTGCAGCAGTG 55% CGCGCCGAGGCTCTGCAGCGATTG 54% CGCGCCGAGGCTCTTACAGCCATTG 55% CGCGCCGAGGCTCTTACTGC 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCCATTCTCCC 56% CGCGCGAGGCCATTCTCCC 56% CGCGCGAGGCCATTCTCCC 56% CGCGCGAGGCCCATTGCC 66% CGCGCGAGGCCCATTGCC 66% CGCGCGAGGCCCATTGCCC 66% CGCGCGAGGCCCCATGGC 66% CGCGCGAGGCCCCATGGC 66% CGCCCGAGGCCCCATGGC 66% CGCCCGAGGCCCCATGGCC 66% CGCCCGAGGCCCCATGGCC 66% CGCCCGAGGCCCCATGGCC 66% CGCCCGAGGCCCCCCCCC 66% CGCCCGAGGCCCCCCCCCCCC 66% CGCCCCGAGGCCCCCCCCCCCCCCCCCCCCCCCCCCCC	, Z1	DSCR9	22%	CGCGCGAGGAGGCAGTCTG	24 GCACCTCCCCACGTTCCATCCT		123
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. 58% CGCGCGAGGCATGCAGTGCAGCAG 58% CGCGCGAGGGATCCTGAGCAACGTG 58% CGCGCCGAGGGATCCTGAGCAACGTG 58% CGCGCCGAGGGCTGCAGCCAGTGA 52% CGCGCCGAGGGCTACAAGCCAGTC 53% CGCGCCGAGGCTTCAAGAGCCATCTGA 55% CGCCCGAGGCTCTAAGAGCCGACTGA 56% CGCCCGAGGCTCTAAGAGCCGACTGA 57% CGCGCGAGGCTTCTGCG 57% CGCGCCGAGGCCATTCTGCG 57% CGCGCCGAGGCCATTCTGCG 57% CGCGCCGAGGGCCATTCTGCG 65% CGCGCCGAGGGCCATTCTGCG 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCCGAGGGCCATAGGCCTCTCA	×	L1CAM	28%	CGCGCGAGGCCTGAGCAACGTGCA	26 CGGATTCAGCGTGGCGCCCTGATT		125
58% CGCGCGAGGGATCCTGAGCAACGTG 58% CGCGCCGAGGGAGCACGTG 58% CGCGCCGAGGGCTCCAGTGA 52% CGCGCCGAGGGCTACAAGCAGCTC 53% CGCGCCGAGGGCTACAAGCAGGTC 55% CGCGCCGAGGCGTTCTGGA 56% CGCGCCGAGGCTTTTTCTGGA 57% CGCGCCGAGGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT	×	LICAM	. 58%		27 CGGATTCAGCGTGGCGCCCTGATCT		126
58%   CGCGCGAGGGAGCAACGTGCAGC 58%   CGCGCCGAGGGCTGCAGC 52%   CGCGCCGAGGGCTACAAGCACGTTC 53%   CGCGCCGAGGGCTACAAGCAGGTC 55%   CGCGCGAGGCTCTGCAGCGAGTG 56%   CGCGCCGAGGCTCTAAGAGCCGACTGA 57%   CGCGCGAGGCTCTAAGAGCCGACTGA 57%   CGCGCCGAGGCTTCTCCCTGTCA 57%   CGCGCGAGGCCATTTCTCCCTGTCA 57%   CGCGCCGAGGGCCATTTCTCCCTGTCA 57%   CGCGCCGAGGGCCATTTCTCCCTGTCA 57%   CGCGCCGAGGGCCATTTCCCGTAGGTC 56%   CGCGCCGAGGGCCATTTCCCAGGTC 65%   CGCGCCGAGGGCCCATTCGCAGGTC 65%   CGCGCCGAGGGCCCCCCGAGG 63%   CGCGCCGAGGGCCCCATAGGCCTCCA	×	L1CAM	28%		28 CCGGATTCAGCGTGGCGCCCTT		127
58% CGCGCGAGGGTGCAGCCCAGTGA 52% CGCGCGAGGGCTACAAGCACGCTC 53% CGCGCCGAGGGCTTCTGGA 56% CGCGCCGAGGCTCTGCAGCGAGTG 56% CGCGCGGAGGCTCTGCAGCGACTG 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGCCATTCTCCCT 57% CGCGCCGAGGCCATTCTCCCT 57% CGCGCCGAGGCCATTTCTCCC 56% CGCGCGAGGCCATTTCTCC 56% CGCGCGAGGCTCCATCTCCCT 66% CGCGCGAGGCTCCAGGTTC 66% CGCGCGAGGCTCCCCGAGG 63% CGCGCCGAGGCTCCCCGAGG 63% CGCGCCGAGGCTCCCCGAGG 63% CGCGCCGAGGCTCCCCCATCCCC 64% CGCGCCGAGGCCCCATCGCACCCCCAGGC 65% CGCCCGAGGCCCCATCCCCCCCCCCCCCCCCCCCCCCCC	×	L1CAM	28%	CGCGCCGAGGGAGCAACGTGCAGC	29 GATTCAGCGTGGCGCCCTGATCCTT		128
52% CGCGCGAGGGCTACAAGCACGCTC 53% CGCGCCGAGGCGTACCAGTTCTGGA 55% CGCGCCGAGGCTTTGCAGCGAGTG 56% CGCGCCGAGGCTTTTGCG 57% CGCGCCGAGGCTTTCTGCG 57% CGCGCCGAGGTTCTCCCTTCA 57% CGCGCCGAGGTTCTCCCTTTCA 57% CGCGCCGAGGTTCTCCCTTTCA 57% CGCGCCGAGGAGCACTTTCC 66% CGCGCGAGGACCATTTGC 65% CGCGCCGAGGACCATTTGC 65% CGCGCCGAGGCCATTTGCAGGT 65% CGCGCCGAGGCCATTTGCAGGT 65% CGCGCGAGGCCATAGGCTCCA 64% CGCGCCGAGGCCCATAGGCTCCA 64% CGCGCGAGGCCCATAGGCCCTTCA	×	L1CAM	28%	CGCGCCGAGGCTGCAGCCCAGTGA	30 CCGGATTCAGCGTGGCGCCTT		120
53% CGCGCGAGGCGGTACCAGTTCTGGA 55% CGCGCCGAGGCTCTGCAGCGAGTG 56% CGCGCCGAGGCTCTACAGCGAGTG 54% CGCGCCGAGGCGGTTCTGCG 57% CGCGCCGAGGCTGTCTCCCTGTCA 57% CGCGCCGAGGTTCTCCCTGTCA 57% CGCGCCGAGGTTCTCCCTGTCA 57% CGCGCCGAGGAGCACTGTGC 65% CGCGCCGAGGACCATGTGC 65% CGCGCCGAGGCCATCTGCAGGTTCG 65% CGCGCCGAGGCCATCTGCAGGTTCG 65% CGCGCCGAGGCCCATAGGCTCCAA 63% CGCGCCGAGGGCCCATAGGCTCCAA 64% CGCGCGAGGGCCCATAGGCCTCCAA	×	PDCD8	25%		31 CAGATTTTGGTGGCTTCCGGGTAAATGCAGAT		130
55% CGCGCGAGGCTCTGCAGCGAAGTG 56% CGCGCGAGGCTCTAACAGCGAAGTG 54% CGCGCCGAGGCGCTTTCTGCG 57% CGCGCCGAGGCTCTCCCTGTCA 57% CGCGCCGAGGGTTCTCCCCTGTCA 57% CGCGCCGAGGGTCTCCCCCAGTGC 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCCGAGGGCCATCTGCAGGTTCG 65% CGCGCGAGGGCCATCTGCAGGTCCGAGG 63% CGCGCGAGGGCCATAGGCCTCCA 54% CGCGCGAGGGCCCATAGGCCTCCA	×	PPEF1	23%		32 TGTCTGGCCTTCAGTCGAGCTTTGTAACCTT		131
56% CGCGCGAGGCTCTAAGAGCCGACTGA 54% CGCGCCGAGGCGGTTTCTGCG 57% CGCGCCGAGGCGGTTCTCCCTGTCA 57% CGCGCCGAGGGTTCTGCCATGTGC 56% CGCGCCGAGGGGGGGGCCATGTGC 65% CGCGCCGAGGCCATTGCAGGTTCG 65% CGCGCCGAGGCCATTGCAGGTTCG 65% CGCGCCGAGGCCATTGCAGGTTCG 65% CGCGCGAGGCCATAGGCCCATAGGCCTCCA 54% CGCGCGAGGGCCCATAGGCCTCCA	> :	SRY	22%	CGCGCCGAGGCTCTGCAGCGAAGTG	33 GCTTCCCGCAGATCCCGCTTCGGTAT		132
54%         CGCGCGGGGGGGGTTTCTGGG           57%         CGCGCCGAGGTCTCCCTGTCA           57%         CGCGCCGAGGTTCTGCCCATGTGC           56%         CGCGCCGAGGGGGGGGGGGGGGGGGGGGCCATCTGCAGGTTCG           65%         CGCGCCGAGGCCATCTGCAGGTTCG           65%         CGCGCCGAGGCCATCTGCAGGTCCGGGG           63%         CGCGCCGAGGGCCATAGGCCCTCCA           54%         CGCGCCGAGGGCCCATAGGCCTCTCA	<u> </u>	EIF1AY	26%	CGCGCCGAGGCTCTAAGAGCCGACTGA	34 GACCTCTTCCGACTCCTTTCTGGCGGTTACTAT		133
57%         CGCGCGAGGCCAGTTCTCCCTGTCA           57%         CGCGCGAGGTCTGCGCATGTGC           56%         CGCGCCGAGGAGGCAGGTG           65%         CGCGCCGAGGGCTCCAGGTTCG           65%         CGCGCCGAGGGCTCCAGGTG           63%         CGCGCCGAGGGCTCCAGGG           63%         CGCGCCGAGGGCCCAAAGGCCTCTCA	<b>∞</b>	GATA6	%	CGCGCCGAGGCGCGTTTCTGCG	35 CACAAGCATTGCACACGGGTTCACCCTT		13.5
57%         CGCGCCGAGGTTCTGCGCATGTGC           56%         CGCGCGAGGAGGAGGACGTGGGTG           1         65%         CGCGCGAGGCCATCTGCAGGTTCG           65%         CGCGCGAGGCCATCTGCAGG           1         65%         CGCGCGAGGGCCTCCGAGG           1         63%         CGCGCGAGGGCCCAAAGGCCCTCTCA	18	SERPINB2	21%	CGCGCCGAGGCCAGTTCTCCCTGTCA	36 CTGCCACAACTGTGGGCCTCCATGTT		125
56%         CGCGCGAGGAGGAGGACGTGGGTG           1         65%         CGCGCGAGGCCATCTGCAGGTTCG           1         65%         CGCGCGAGGCTCCAGCTCCGAGG           1         63%         CGCGCGAGGGCCCGAGAACTGGAC           1         54%         CGCGCGAGGGCCATAGGCCTCTCA	₽ 13	DLEU1	21%	CGCCCGAGGTTCTGCGCATGTGC	37 AGGGAGAGCCGTGCACCACGATGAC		136
65%   <u>CGCGCGAGG</u> CCATCTGCAGGTTCG   65%   <u>CGCGCGAGG</u> CTCCAGCTCCGAGG   63%   <u>CGCGCGAGG</u> GCCGAGAAACTGGAC   54%   <u>CGCGCGAGG</u> GCCATAGGCCTCTCA	<u></u>	ABCC4	26%	CGCGCCGAGGAGGACCACGTAGGTG	38 CGGCTGGCTGTGATCACACTGCCGT		12.5
65%   <u>CGCGCGAGG</u> CTCCAGCTCCGAGG	<del></del>	POU4F1	<b>%</b> 29	CGCGCCGAGGCCATCTGCAGGTTCG	39 CGTGGGCTCACTCAGCCAGCAT		38
1) 63% CGCCCGAGGCCCGAGAACTGGAC CGCCCGAGAACTGGAC	<del>ن</del> 5	POU4F1	<b>62</b> %	CGCGCCGAGGCTCCAGCTCCGAGG	40 CTGAGCACAAGTACCCGTCGCTGCAT		39
1 54% CGCCCGAGGCCCATAGGCCTCTCA	<del></del>	POU4F1	63%	CGCGCCGAGGCCCGAGAACTGGAC	41 CCTCGTCCGAGAAGATCGCCGCCATCT		40
	13	POU4F1	24%		42 CCACTCACTTCCCGGGATTGGAGGAGCAT		141

142	443	147	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	177	178	179	180	18	182	183	184	185
43 ACTACCCACCGGCTCATGGTCTCCTAGACT	44 GGCCCTTGTCTGAAGCCTCCTTGGGAAT	46 GTGCCCTCTCAGCCATTCCTGGCC	47 TGGACGGACACATTGAGCCTGTCCAT	48 CGAAGAGGTGACTTCGACCGAGCTCTCCAT	49 CGTTAGAGCCTGTGCACTGGACCTGCTTT	50 CTCCCAGTCAGGCCTCCACCAGCT	51 GGCCACCGCTGCACGTTCTGTCTT	52 TGGCCAACTTCAGTCCCAGGGCATT	53 TGGCCAACTTCATTCAGTCCCAGGGCATT	54 GTGACTGGTCCACCTTCAGGGAGCTT	55 GTTCACCCTGGGCCTCAGCCCAT	56 CTGCCTCTGCTGCCGGCCAACT	57 GAGGGGAACGGCTCACTCCAGCT	58 GAGGCGGAACGGCTCACTCCAGCT	59 GGGTGACTCTCCTTCTGCCACAGTGGCT	60 TGTCTCCCCAGTCATTTCCCAAGAGAACACTCTCT	61 GCACCCAGAGTAGGGGTGGAGTATACCCTTT	62 STCCCCTCGGCTCCTAATCTCTTCTCAAAACTCAGC	63/TCGGCATCCCTAGCACATGCCTCTT	64 GCACAGTTCCCAGTACAGAGACCCGGAT	65 GCTCCTGCTGTGCAGAGCGCACT	66 GCTCCTGCTGTGCAGAGAGCGCACT	67 TGCACCCGGACGGCAACTCCTTCT	68 GCCACGATTGACTTCTACGACGATGAGTCTACTGAGTT	69 CCGTTCCATCCCAGGCGAGCAGTT	70 AAGTGCGCTTGCAGCCATCCTGGATT	71 GTGGAAGGGTTTGTCTTGTGCCCAGGCT	72 GTGGAAGGGTTTGTCTTGTGCCCAGGCT	73 TGGCCGAGCTCCACCGTGTCAT	74/GGAGAGGGGGAAATCAGGAGGATGATGGAAT	/s/accagaggaggaggagggggggggggggggggggggg	72 CRCTGCTTGAAGGCGTTTGCAACTCT	78/TCCATTTTGCCAGGCGCTTGTCCATCT	79 TCCATTTTGCCAGGCGCTTGTCCATCT	80/ACCACCTCATCACGGAGAACTTCCCGCC	81 GCCTCTGCACTCAGGATGCT	82 CCATGACTGCAGTTCCCGCCACT	83 CTCCTTTTCTTCCCCCAGATGTCTGTGAACACAT	84 TGGCCTCCAGCTGGCATCTTGACCTT	85 CCGCACCGCGTTCACGCAGTTTCT	86 CTGGTGATCATATGCCCCCAAGGAGCTTGATCT
CGCGCCGAGGCACTGTCACTGCAGC		CGCGCCGAGGTCCGTGGTAGCAGAA	CGCGCCGAGGCCTGGATCTGTGTGG	CGCGCCGAGGCTGGAGACCAGAGTCA	CGCGCCGAGGCATGCCACAGATGCC	CGCGCGAGGCATGCTTTCGGAGACTC	CGCGCCGAGGCTGGTCCATGTC	CGCGCGAGCAGCTCCCTGAAGGT	CGCGCGAGCCAGCTCCCTGAAGGTG	CGCGCCGAGGGATGCCCTGGGACT	CGCGCCGAGGCCTTCCGTGCTGGA	CGCGCGAGGAGCTTCAACCGCAAC	CGCGCCGAGGCATGCAGTGCAGCA	CGCGCCGAGCCATGCAGTGCAGCAG	CGCGCCGAGGCTGCGTAGCTCCCA	CGCGCGAGGACGCCTGGATTATTCTG	CGCGCCGAGGCCCATGTGTTAGTGAAAATG	CGCGCCGAGGTAGCTCAGGTTCTCTGG	CGCGCCGAGGCCAAGAGGGCTGTG	CGCGCCGAGGCAGGTGGCTGTTTCTC	CGCGCCGAGGCTGCCTTACCAGTGTC	CGCGCCGAGGCTGCCTTACCAGTGTCC	CGCGCCGAGGGACATGCTGAGAAACCT	CGCGCCGAGGCTGCTTCCGAAGCTG	CGCGCCGAGGCTGTAACGTGGTGCAG	CGCGCCGAGGGTCAACTGGCCACAG	CGCGCCGAGGCTTGCGGTCATGCAA	CGCGCCGAGGCTTGCGGTCATGCAAG	CGCGCCGAGGGCCAIIICCAGGICC	CCCCCCAGGC 16C16C16CAGAI	CGCGCCGAGGGACTCACTTCAC	CGCGCCGAGGCATGGCTCATGGACC	CGCGCCGAGGCGTCTGCGCACCT	CGCGCCGAGGCGTCTGCGCACCTC	CGCGCCGAGGTGAAGCTCTGCAGGA	CGCGCCGAGGGTAGTGTCCTGGCTCG	CGCGCCGAGGCGGAAGATCTCAGTGCT	CGCGCCGAGGGATCCTGGGACCTCC	CGCGCCGAGCCACCATGAGAGTCC		CGCGCGAGGCAATGGTGAGGGAAGTC
57%	, <u>%</u>	51%	25%	26%	26%	26%	25%	%95	26%	26%	%09	62%	26%	28%	21%	48%	25%	23%	29%	26%	<b>2</b> 7%	24%	%09	21%	28%	25%	26%	26%	26%	\$ }	\$ \$	28%	21%	21%	21%	63%	26%	53%	26%	62%	25%
PCDH9	PCDH9	РСБН9	FLJ23403	KIAA0222	CLON17	MGC33295	PCP4	PFKFB1	PFKFB1	PFKFB1	ZNF157	FLJ22843	DUSP21	DUSP21	MGC33889	PRKY	PRKY	PRKY	TMSB4Y	TMSB4Y	NRIP1	NRIP1	HLCS	DSCR6	DSCR9	DSCR3	DSCR4	DSCR4	DSCR10	֓֞֞֞֝֞֞֞֓֞֓֓֓֓֓֓֓֓֓֓֞֟֓֓֓֓֓֓֓֓֓֓֓֞֓֓֓֓֞	E CS	HLCS	DSCR9	DSCR9	DSCR3	DSCR6	MTMR8	MGC23947	FLJ21174	ESX1L	ZNF157
t t	. τ.	13	18	8	7	5.2	7	×	×	×	×	×	×	×	×	>	>	>	>	>	7	5	51	7	7	5 6	5 7	5 7	- ¤	5 2	2 2	21	7	21	21	7	×	×	×	×	×

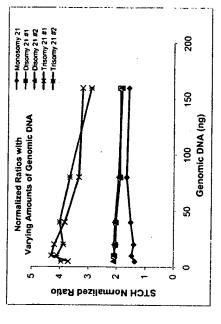
186	187	188	500	90	5	38	2 6	4 0	200	196	197	198	218	220	3 6	777	677	526	228	230
87 CTGCACCTCATCCGAGGACGTGGCC	89 CELCACICICCIICTGCCACAGGGCCC	こうりないうついないのうこうのからいっていることの	91GTCTGCGCACCTCCACC	92 CGTCTGCGCACCTCCCACCC	93 GAAGTGCAACTGGACAACAGGTTATACAGGATT	94/GGTACTCTGCAGCGAAGTGCAACTGCA	95 TGCTGCCGAAGAATTGCAGTTGCTTCCTT	96 GAAGAATTGCAGTTTGCACACACACACACACACACACACA	27/2010年の日本は、1000年の日本のでのできた。	SOCIETATION CONTRACTOR OF CONT	SO COLLEGATOR COLLEGAT	SA GENERAL PAGGAGI CGCATCCCTGCCTCT	217/GCCTATGGTCTCCACAAGGCTGACGTCTTT	219 GAGAGGCCAAGAGCCTCCATCAATCCCTT	2211CGACTCTGGTACGCAGCTGCCTCGTT	223 TCCACCAGCCAGTCCACCAGT		223 GICLEL CAGAGGGGAAACI GCAGCI	227/GCTAGGCCGCCTTCATCCGCCC	229 GAACTCCCAGGACAGACCTACGATGCCACT
CGCGCGAGGTGAAGCCTGGTCACT	CGCGCGAGGAGCAGTCTGTAACGTG	CGCGCCGAGGGGGGGCAGTCTG	CGCGCCGAGGCCATCCCAGGCGA	CGCGCCGAGGTTCCATCCCAGGCG	CGCGCCGAGGGACTGTACGAAAGCCAC	CGCGCCGAGGAGGTTGTACAGGGATGA	CGCGCCGAGGCCAGATCCCGCTTC	CGCGCCGAGGCTTCGGTACTCTGC	CGCGCCGAGGTGAAGCAGGTCCAGT	CGCGCCGAGGCATGGCTCTGCAC	CGCGCCGAGCCAGTCAGGCTTCC	COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC	CCCCCCAGCCCACGICITICGIGALAG	COCCACIO DE LA COCCACIO	CGCGCGAGGCCAGTGCTCCGGA	CGCGCCGAGGCGCATGCCTTCC	CGCGCCGAGGCGTAGGAACAGCAGC			COCOCCOAGECCAGE GCAACE
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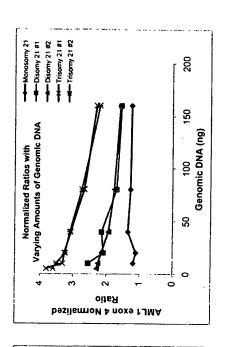
Fam-TCT-228-AGCCGGTTTTCCGGCTGAGACCTCGGCGCG-hex Red-TCT-228-TCGGCCTTTTGGCCGAGAGACTCCGGGTCGT-hex

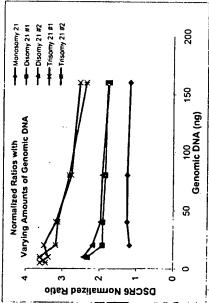
FAM FRET cassette RED FRET cassette

SEQ ID NO:199 SEQ ID NO:200

FIGURE 4







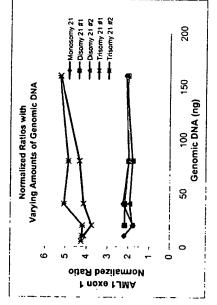
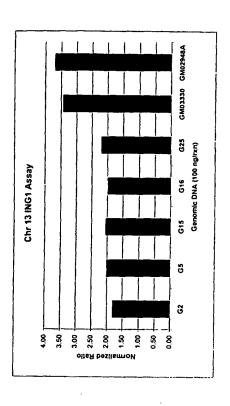
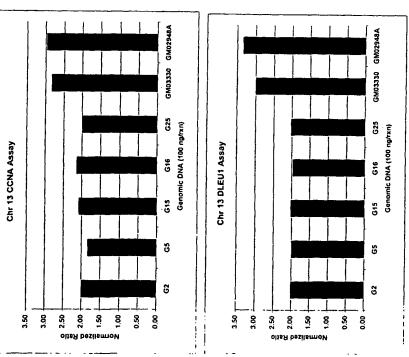
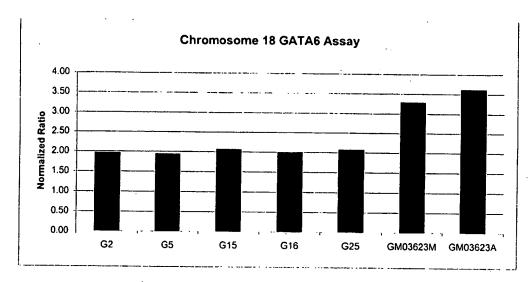


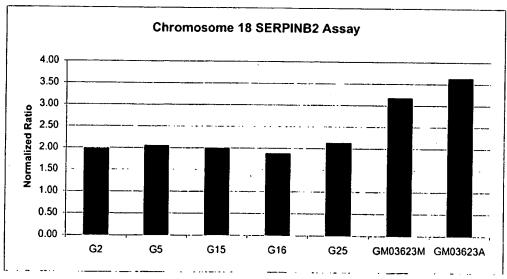
FIGURE 5

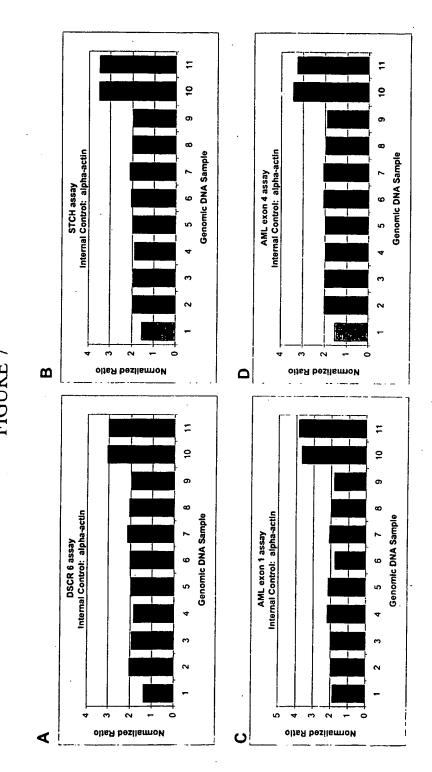




#### FIGURE 6

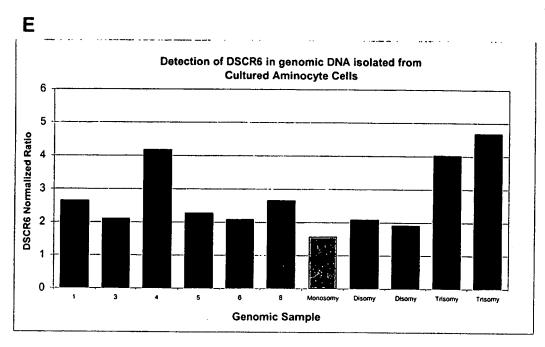


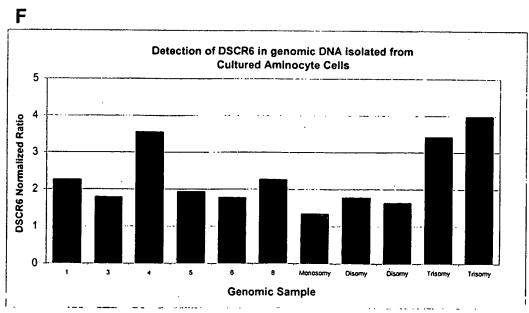




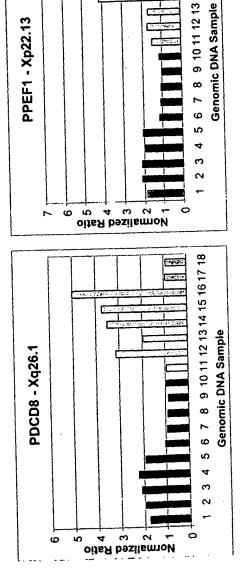
10/21

### FIGURE 7 (continued)





## FIGURE 8



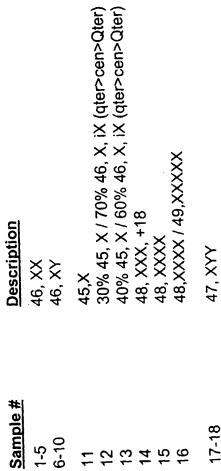
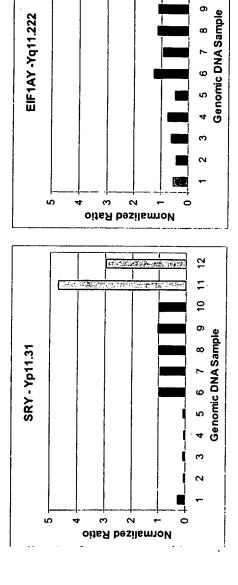
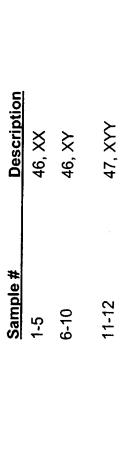


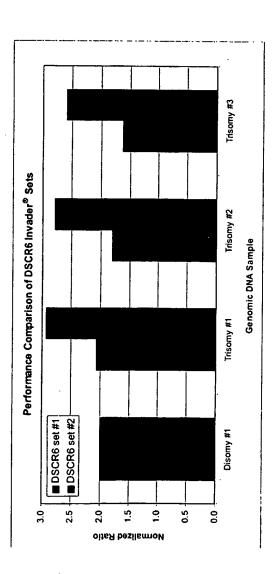
FIGURE 9



10 11



# FIGURE 10



Trisomy #1: Coriell AG13429

Trisomy #2: Coriell AG09394

Trisomy #3: Coriell AG10098

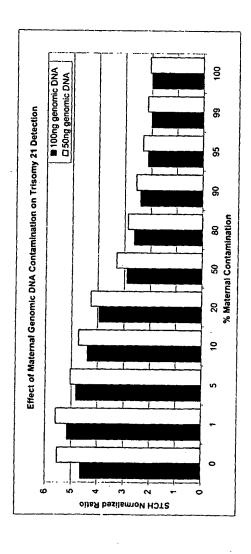
-all genomic DNA's were prepped using the Gentra Autopure Prep

## FIGURE 11A

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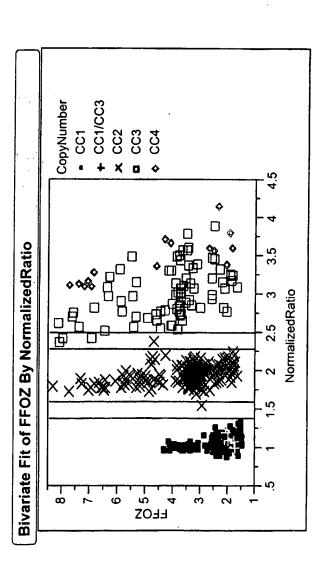
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Signal		28	196 240	187	516	273	327	327	88	37	393	453	387	423	7 127	7 697	487	170	, , ,							8	
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nalized Ratio		2.10	2.10 1.96 1.91	1.91	2.02	4	4.64	5.16	4.82	4.39	3.95	2 89	2 63	2 40 2	2 13 3	,	-		4							1	
					1				1			-1								3	6.4	2	79.7	2.36	2.32	2	202





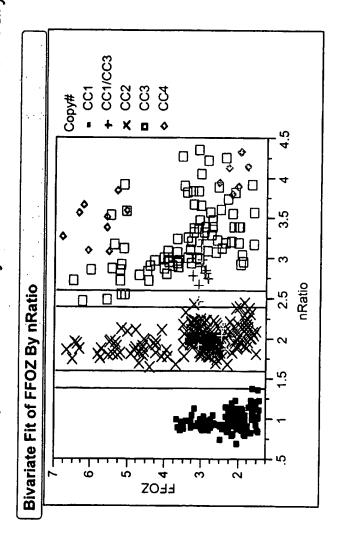
Chrom	Gene	Accession # Cytoband	Cytoband	Figure 12	SEO IN NO.
	alpha actin	M20543	1042 13	ATGLACAGGGTTCCTTAA	
	HIST2H2B E	NM 003528	1921.2	GTATCCACAGGA(GGCCCCATCGCACGGACGACAGACAGACAGACAGACGACAGACA	
13	DLEU1	NM_005887	13q14.2		205
13	РСОН9	NM_020403	13q21.33	ATGGTAACCGTTGC(TCGAGCAGGAGTQG)AGCTGCCGTCACTAGCCAGC 13q21.33 ACTGT)CACTTTGTGAATGGCTGTCTCTCTCTAAGGACC	206
18	FLJ23403	NM 022068	18p11.22	GCCAACATCAGGATGAATATGTGAGATGATGATGATGATGTTGATGTTGT	207
×	PFKFB1	NM_002625	Xp11.21	ATGGTCCTCTTCATGTGACTGGTCCA[CACCTTCAGGGAGCTBJATGCCC TGGACTGAATGAATGAAGTTGGCCAJGGGCATAGGCA	208
<b>&gt;</b>	PRKY	NM_002760	Yp11.2	CTCCTTCT(GCACCCAGAGTAGGGGTGGAGTATACCCTTG)CCATGTGTT AGTGAAAATG)TGTGCAGTGAGAAGCCAGTTGGGTCCCCTCGGC	209
21	NRIP1	NM 003489	21911.2	GGCTCCGATTTAAAGTCTTCG(GACACTGGTAAGGCABJGTGCGCTTCTC TGCACAGCAGGAGC)CATACCCAAGAATGGGGCACTCTTAGCAT	210
21	HLCS	NM_000411	21q22.13	GAGGATG(AGGTTTCTCAGCATGTC)GAAGGAGTTGCCGTCCGGGTGCA) 21q22_13   CAGTCACAACCTCGCCGCCCTCCTGGTGAACCTGGAGGAAGCCA	211
18	CN2	NM 018235	18q22.3	TGGCC(GGAGAAGAGGGGAAATCAGGAGGATGATGGAAGJTTGCTGC TGCAGAT)GTTAAGCAGTTGGGGGGCTCTGTGGAACTGGTGGATA	212
×	MTMR8	NM 017677	Xq11.2	CCTTGGGTACCGTAATATGAT(CCATGACTGCAGTTCCCGCCAC[C]GGAA GATCTCAGTGCTACTCCAGATGCCGCCGCCACCGGTCTAGCCG	213
×	FLJ21174	NM_024863	Xq22.2	GAAGAGTTCAGCTGCTAGGTTCTTATTTTG(GGACTCTCATGATGCTIGJAG GTCAAGATGCCAGGTGGAGGCCA)GGCGCGCGCAGGTCACGCCT	214
×	PCTK1	NM 033018	Xp11.3	GAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGGGAG(AGTGAC CAGGCTTC[AJGCCACGTCCTCGGATGAGGTGCAG)TCTCCAGTGA	215
<b>→</b>	SRY	NM 003140	Yp11.31	TCATCCCTGTACAACCTGTTGTCCAGTTGCACTTCGCT(GCAGAGTACCG	216

Chromosome Xp Invader Assay:PFKFB1+PCTK1 -Varying DNA Levels Figure 13A



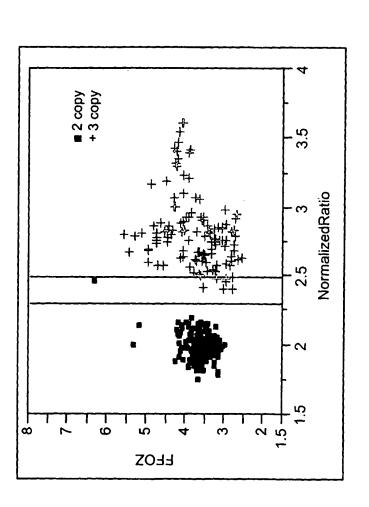
- 3 30 ng of DNA per reaction
- Equivocol zones: 1.4 -1.6; 2.3 2.5
- N=637 samples, 517 normal, 120 aneuploid
- No call rate 1.9% (7 samples < 1.4 FOZ, 5 equivocal samples)</li>
  - Miscall rate 0%

Chromosome Xq Invader Assay:MTMR8+FLJ21174 -Varying DNA Levels Figure 13B



- · 3 30 ng of DNA per reaction
- Equivocol zones: 1.4 -1.6; 2.4 2.6
- N=638 samples, 518 normal, 120 aneuploid
- No call rate 3.3% (15 samples < 1.4 FOZ, 6 equivocal samples)</li>
  - Miscall rate 0%

Figure 14. Chromosome 18 Invader® Assay - Sample Mixtures



Trisomy 18 / Disomy sample mixtures

10 ng of DNA per reaction

• Equivocal zone: 2.3 – 2.5

• N=315 samples, 198 disomy, 117 trisomy (+18 with 0%, 10% and 20% disomy contamination)

No call rate 2.9%

Miscall rate 0%

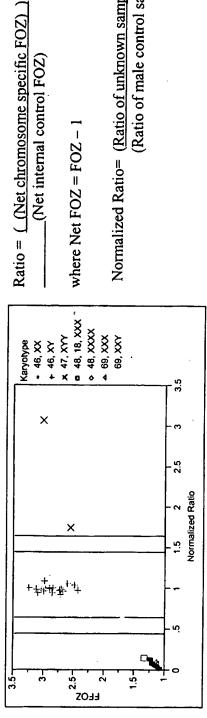
(Net chromosome specific FOZ)

where Net FOZ = FOZ -

Inversed Ratio = ( (Net internal control FOZ)

# Figure 15: Analysis of Triploidy Samples (69, XXY

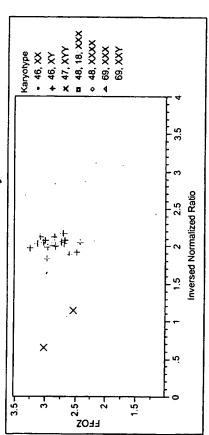
Normalized Ratio Analysis



(Net internal control FOZ) where Net FOZ = FOZ - 1

(Ratio of male control sample) Normalized Ratio= (Ratio of unknown sample)





X(2) (Ratio of male control sample) Inversed Normalized Ratio= (Ratio of unknown sample)

Note: Samples not containing a Y chr. not shown on graph due to high inversed normalized ratios (>10)